

10/566878

SEQUENCE LISTING

1A P20 Rec'd PCT/NL 02 FEB 2006

5 <110> Fuji Photo Film B.V.

10 <120> Use of gelatin-like proteins as stabiliser

15 <130> P209992

20 <160> 2

25 <210> 1
<211> 1464
30 <212> PRT
<213> unknown

35 <220>

<223> COL1A1

40 <400> 1

Met Phe Ser Phe Val Asp Leu Arg Leu Leu Leu Leu Ala Ala Thr
1 5 10 1545 Ala Leu Leu Thr His Gly Gln Glu Glu Gly Gln Val Glu Gly Gln Asp
20 25 3050 Glu Asp Ile Pro Pro Ile Thr Cys Val Gln Asn Gly Leu Arg Tyr His
35 40 4555 Asp Arg Asp Val Trp Lys Pro Glu Pro Cys Arg Ile Cys Val Cys Asp
50 55 6060 Asn Gly Lys Val Leu Cys Asp Asp Val Ile Cys Asp Glu Thr Lys Asn
65 70 75 8065 Cys Pro Gly Ala Glu Val Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
85 90 95

65 Asp Gly Ser Glu Ser Pro Thr Asp Gln Glu Thr Thr Gly Val Glu Gly

	100	105	110
5	Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Arg Gly Pro Ala Gly Pro 115 120 125		
10	Pro Gly Arg Asp Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Pro Pro 130 135 140		
15	Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Leu Gly Gly Asn Phe Ala 145 150 155 160		
20	Pro Gln Leu Ser Tyr Gly Tyr Asp Glu Lys Ser Thr Gly Gly Ile Ser 165 170 175		
25	Val Pro Gly Pro Met Gly Pro Ser Gly Pro Arg Gly Leu Pro Gly Pro 180 185 190		
30	Pro Gly Ala Pro Gly Pro Gln Gly Phe Gln Gly Pro Pro Gly Glu Pro 195 200 205		
35	Gly Glu Pro Gly Ala Ser Gly Pro Met Gly Pro Arg Gly Pro Pro Gly 210 215 220		
40	Pro Pro Gly Lys Asn Gly Asp Asp Gly Glu Ala Gly Lys Pro Gly Arg 225 230 235 240		
45	Pro Gly Glu Arg Gly Pro Pro Gly Pro Gln Gly Ala Arg Gly Leu Pro 245 250 255		
50	Gly Thr Ala Gly Leu Pro Gly Met Lys Gly His Arg Gly Phe Ser Gly 260 265 270		
55	Leu Asp Gly Ala Lys Gly Asp Ala Gly Pro Ala Gly Pro Lys Gly Glu 275 280 285		
60	Pro Gly Ser Pro Gly Glu Asn Gly Ala Pro Gly Gln Met Gly Pro Arg 290 295 300		
65	Gly Leu Pro Gly Glu Arg Gly Arg Pro Gly Ala Pro Gly Pro Ala Gly 305 310 315 320		
	Ala Arg Gly Asn Asp Gly Ala Thr Gly Ala Ala Gly Pro Pro Gly Pro 325 330 335		
	Thr Gly Pro Ala Gly Pro Pro Gly Phe Pro Gly Ala Val Gly Ala Lys 340 345 350		
	Gly Glu Ala Gly Pro Gln Gly Pro Arg Gly Ser Gly Glu Gly Pro Gln Gly 355 360 365		

Val Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Ala Ala Gly Pro
370 375 380

5 Ala Gly Asn Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Ala Asn
385 390 395 400

10 Gly Ala Pro Gly Ile Ala Gly Ala Pro Gly Phe Pro Gly Ala Arg Gly
405 410 415

15 Pro Ser Gly Pro Gln Gly Pro Gly Gly Pro Pro Gly Pro Lys Gly Asn
420 425 430

20 Ser Gly Glu Pro Gly Ala Pro Gly Ser Lys Gly Asp Thr Gly Ala Lys
435 440 445

25 Gly Glu Pro Gly Pro Val Gly Val Gln Gly Pro Pro Gly Pro Ala Gly
450 455 460

30 Glu Glu Gly Lys Arg Gly Ala Arg Gly Glu Pro Gly Pro Thr Gly Leu
465 470 475 480

35 Pro Gly Pro Pro Gly Glu Arg Gly Gly Pro Gly Ser Arg Gly Phe Pro
485 490 495

40 Gly Ala Asp Gly Val Ala Gly Pro Lys Gly Pro Ala Gly Glu Arg Gly
500 505 510

45 Ser Pro Gly Pro Ala Gly Pro Lys Gly Ser Pro Gly Glu Ala Gly Arg
515 520 525

50 Pro Gly Glu Ala Gly Leu Pro Gly Ala Lys Gly Leu Thr Gly Ser Pro
530 535 540

55 Gly Ser Pro Gly Pro Asp Gly Lys Thr Gly Pro Pro Gly Pro Ala Gly
545 550 555 560

60 Gln Asp Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Ala Arg Gly Gln
565 570 575

65 Ala Gly Val Met Gly Phe Pro Gly Pro Lys Gly Ala Ala Gly Glu Pro
580 585 590

Gly Lys Ala Gly Glu Arg Gly Val Pro Gly Pro Pro Gly Ala Val Gly
595 600 605

Pro Ala Gly Lys Asp Gly Glu Ala Gly Ala Gln Gly Pro Pro Gly Pro
610 615 620

Ala Gly Pro Ala Gly Glu Arg Gly Glu Gln Gly Pro Ala Gly Ser Pro
625 630 635 640

5 Gly Phe Gln Gly Leu Pro Gly Pro Ala Gly Pro Pro Gly Glu Ala Gly
645 650 655

10 Lys Pro Gly Glu Gln Gly Val Pro Gly Asp Leu Gly Ala Pro Gly Pro
660 665 670

15 Ser Gly Ala Arg Gly Glu Arg Gly Phe Pro Gly Glu Arg Gly Val Gln
675 680 685

20 Gly Pro Pro Gly Pro Ala Gly Pro Arg Gly Ala Asn Gly Ala Pro Gly
690 695 700

25 Asn Asp Gly Ala Lys Gly Asp Ala Gly Ala Pro Gly Ala Pro Gly Ser
705 710 715 720

Gln Gly Ala Pro Gly Leu Gln Gly Met Pro Gly Glu Arg Gly Ala Ala
725 730 735

30 Gly Leu Pro Gly Pro Lys Gly Asp Arg Gly Asp Ala Gly Pro Lys Gly
740 745 750

35 Ala Asp Gly Ser Pro Gly Lys Asp Gly Val Arg Gly Leu Thr Gly Pro
755 760 765

40 Ile Gly Pro Pro Gly Pro Ala Gly Ala Pro Gly Asp Lys Gly Glu Ser
770 775 780

45 Gly Pro Ser Gly Pro Ala Gly Pro Thr Gly Ala Arg Gly Ala Pro Gly
785 790 795 800

Asp Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Phe Ala Gly Pro
805 810 815

50 Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Glu Pro Gly Asp Ala
820 825 830

55 Gly Ala Lys Gly Asp Ala Gly Pro Pro Gly Pro Ala Gly Pro Ala Gly
835 840 845

60 Pro Pro Gly Pro Ile Gly Asn Val Gly Ala Pro Gly Ala Lys Gly Ala
850 855 860

65 Arg Gly Ser Ala Gly Pro Pro Gly Ala Thr Gly Phe Pro Gly Ala Ala
865 870 875 880

Gly Arg Val Gly Pro Pro Gly Pro Ser Gly Asn Ala Gly Pro Pro Gly
885 890 895

5 Pro Pro Gly Pro Ala Gly Lys Glu Gly Gly Lys Gly Pro Arg Gly Glu
900 905 910

10 Thr Gly Pro Ala Gly Arg Pro Gly Glu Val Gly Pro Pro Gly Pro Pro
915 920 925

15 Gly Pro Ala Gly Glu Lys Gly Ser Pro Gly Ala Asp Gly Pro Ala Gly
930 935 940

20 Ala Pro Gly Thr Pro Gly Pro Gln Gly Ile Ala Gly Gln Arg Gly Val
945 950 955 960

25 Val Gly Leu Pro Gly Gln Arg Gly Glu Arg Gly Phe Pro Gly Leu Pro
965 970 975

Gly Pro Ser Gly Glu Pro Gly Lys Gln Gly Pro Ser Gly Ala Ser Gly
980 985 990

30 Glu Arg Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Leu Ala Gly Pro
995 1000 1005

35 Pro Gly Glu Ser Gly Arg Glu Gly Ala Pro Gly Ala Glu Gly Ser
1010 1015 1020

40 Pro Gly Arg Asp Gly Ser Pro Gly Ala Lys Gly Asp Arg Gly Glu
1025 1030 1035

45 Thr Gly Pro Ala Gly Pro Pro Gly Ala Pro Gly Ala Pro Gly Ala
1040 1045 1050

Pro Gly Pro Val Gly Pro Ala Gly Lys Ser Gly Asp Arg Gly Glu
1055 1060 1065

50 Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly Pro Ala Gly Ala
1070 1075 1080

55 Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp Lys Gly Glu
1085 1090 1095

60 Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg Gly Phe
1100 1105 1110

65 Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Glu
1115 1120 1125

Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
1130 1135 1140

5 Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu
1145 1150 1155

10 Pro Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp
1160 1165 1170

15 Ala Gly Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
1175 1180 1185

20 Pro Gly Pro Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln
1190 1195 1200

25 Pro Pro Gln Glu Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala
1205 1210 1215

Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu Val Asp Thr
1220 1225 1230

30 Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg Ser Pro
1235 1240 1245

35 Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu Lys
1250 1255 1260

40 Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro
1265 1270 1275

45 Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met
1280 1285 1290

Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala
1295 1300 1305

50 Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His
1310 1315 1320

55 Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr
1325 1330 1335

60 Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr
1340 1345 1350

Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr
1355 1360 1365

His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
1370 1375 1380

5 Leu Lys Lys Ala Leu Leu Leu Lys Gly Ser Asn Glu Ile Glu Ile
1385 1390 1395

10 Arg Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp
1400 1405 1410

15 Gly Cys Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu
1415 1420 1425

20 Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala
1430 1435 1440

25 Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val
1445 1450 1455

Gly Pro Val Cys Phe Leu
1460

30 <210> 2

<211> 54

35 <212> PRT

<213> unknown

40 <220>

<223> selected gelatin-like peptide with high Tg

45 <400> 2

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala Pro Gly
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50 Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser Gly Asp
20 25 30

55 Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly Pro Ala
35 40 45

60 Gly Ala Arg Gly Pro Ala
50